

# ODOT Office of CADD and Mapping Services

## Location & Design Manual, Volume 3

### January 2022 Revisions

Formatting in all sections has been updated. All text is now black, except where new verbiage has been added, which will still appear red. Links will remain a blue color, so they are easily visible when scrolling through document. Headers, footers, and other minor formatting is being updated to provide consistency between sections and to ensure uniformity across entirety of the document.

There was a double set of Table of Contents. One set removed, this version contains only 1 Table of Contents, and will be at the beginning of each of the corresponding sections.

Sections 1200, 1300, and 1400 stand-alone figures were merged into the main document. They may appear slightly different, but they have not technically changed unless noted below (and marked within the relevant figure).

#### **PREFACE**

- Added cover page.
- Removed “SPEDuP Plans”

#### **SECTION 1200 – PLAN PREPARATION**

Table of contents page numbering edited to match format of page numbers.

#### **SECTION 1300 – PLAN COMPONENTS**

- **SECTION 1303.6 - Project Limits**  
Revised 3<sup>rd</sup> paragraph to include points shall be shown. Also, revised Plan & Profile sheets to include both stationing and straight-line mileage.
- **SECTION 1307.2.2 - Participation and Funding Splits**  
Added verbiage to first paragraph.
- **SECTION 1307.2.3 - Item Code, Unit of Measure, and Description**  
Replace image of SP 1307-3(c) with updated.  
Page 13-38, Drainage: Added verbiage. Also, removed “, and when used for Sanitary Sewer or Other Utilities”.  
Page 13-39, Pavement: Added 861  
Page 13-39, Sanitary Sewer: Added verbiage.  
Page 13-39, Lighting: Added verbiage. Also added 812 & 893. Also, removed “and when used for Electrical, Other Utilities, Traffic Surveillance, or Traffic Signals”.  
Page 13-39, Electrical: Added verbiage  
Page 13-39, Other Utilities: Added verbiage. Added 864.  
Page 13-39, Traffic Surveillance: Added verbiage. Also, added 864.  
Page 13-39, Traffic Control: Removed “except”. Replaced Surveillance with Control. Also, added 893.  
Page 13-39, Traffic Signals: Removed “except”. Replaced Surveillance with Signals. Added verbiage. Added 898.  
Page 13-39, Retaining Walls: Removed 610. Added 893, 894 and verbiage.  
Page 13-39, Noise Barriers: Added 893 with verbiage.  
Page 13-39 - 13-40, Structures: Removed “except” throughout. Replaced Retaining Walls with Structures, throughout. Added 894 with verbiage.  
Page 13-40, Maintenance of Traffic: Removed “except”. Replaced Erosion Control with Maintenance of Traffic. Also removed 873.  
Page 13-40, Items of Work: Added 893 with verbiage.
- **SECTION 1307.2.7 - Alternate, Optional, and Additive Alternate Bid Items**

Replace image of SP 1307-3(c) with updated.

- SECTION 1308.2 - Requirements  
Removed: “, are scaled to the grid” from last paragraph of section.
- SECTION 1312.2 - Culvert Details, A. Hydraulic Design Data  
Page 13-60 Replace Culvert with Conduit.
- SECTION 1312.3 - Storm Sewer Profiles  
Replace Culvert with Conduit.
- SECTION 1312.4 - Three-Sided Precast Culverts  
Change title: 1312.4 Precast Drainage Structures  
Remove “three-sided”  
Remove “culvert details will consist of the following as a minimum”  
Added: drainage structures (i.e. C&MS 706.05, 706.051, 706.052 & 706.053) require the Designers to prepare plans using one of the methods listed below. For more information about choosing a Plan Preparation method, refer to BDM Section 311.2.2  
Remove section A in its entirety:
  - A. Plan Details
    - Wall and slab thicknesses.
    - Footing, wingwall, and headwall details.
    - Reinforcing steel list (cast-in-place concrete only).
    - Structure number with station.
    - Foundation notes.
    - Estimated quantities - 503, 511 or 898, and 509 should be used for headwalls, footings and wingwalls. The plans should define the limits of work under 503 and 611.Replace section A with
  - A. Cast-in-place full-height headwalls as illustrated in Sample Plan Sheets [SP 1312-6(a) through 6(h)] with the following minimum Plan Details:
    - Wall and slab thickness of the drainage structure.
    - Fully detailed headwalls including footings, wingwalls, foreslope walls, and cutoff walls.
    - Reinforcing steel list.
    - Structure number with station.
    - Foundation notes.
    - Estimated quantities - 503, 509, and 511. The plans should define the limits of work under 503 and 611.Changed B. “Optional Designs” to Precast full-height headwalls as illustrated in Sample Plan Sheets [SP 1312-6(i) through 6(p)] with the following minimum Plan Details:  
Add the following to section B.:
  - Wall and slab thicknesses of the drainage structure
  - Fully detailed footings, foreslope walls and cutoff walls
  - Reinforcing steel list (for footings, foreslope walls and cutoff only)
  - Structure number with station.
  - Foundation notes
  - Estimated quantities - 503, 509, 511 (for footing and headwalls only) and 851 (see Designer Notes for quantity information). The plans should define the limits of work under 503 and 611.

## **SECTION 1400 – REVIEW SUBMISSIONS**

Table of contents page numbering edited to match format of page numbers.

- Figure 1402-1 Design Information Sources  
Page 14-29 Replace Culvert with Conduit.

## **SECTION 1500 – PLAN RELATED ACTIONS**

Table of contents page numbering edited to match format of page numbers.

